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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/994,565	11/27/2001	Jong-Chul Lee	678-740 (P9839)	8742

7590 12/10/2003
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EXAMINER

GOOD JOHNSON, MOTILEWA

ART UNIT PAPER NUMBER

2672

DATE MAILED: 12/10/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/994,565

Applicant(s)

LEE, JONG-CHUL

Examiner

Motilewa A. Good-Johnson

Art Unit

2672

-- The **MAILING DATE** of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 November 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

1. This action is responsive to the following communication: Application, filed 11/27/2001.
2. Claims 1-7 are pending in this application. Claim 1 is an independent claim. No claims have yet been amended.
3. The present title of this application is "Method for Changing Display Direction in a Portable Telephone" (as originally filed)

Priority

4. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 1, 2, 4 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Smith, U.S. Patent Publication 2002/0033836 A1.

As per independent claim 1, a method for changing a display direction of a display for displaying an image in a portable telephone, comprising the steps of: displaying the image in a predetermined display direction; (Smith discloses converting the display of an image from a first display orientation to a second orientation, paragraph 0006) determining whether a display direction change mode is selected, while displaying the image in a predetermined direction; (Smith discloses based upon a user desire to change the mode the user can press the key to view the device in a rotated manner, paragraph 0015) and changing the display direction if it is determined that the display direction change mode is selected. (Smith discloses the orientation can be changed to a users desired orientation mode, paragraph 0016)

With respect to dependent claim 2, a user selects the display direction change mode by pressing a key. (Smith discloses converting the orientation by pressing a key, paragraph 0007)

With respect to dependent claim 4, the display direction change mode is determined by inversion of the portable telephone. (Smith discloses the display is changed based upon a switch, which activates in response to the change of the orientation of the device with respect to a reference orientation, paragraph 0018)

With respect to dependent claim 5, inversion of the portable telephone is sensed through a gravity sensor. (Smith discloses an orientation-sensing device to automatically switch to a reference orientation, paragraph 0018)

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 3, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith further in view of Lucente et al., U.S. Patent Number 5,566,098.

With respect to dependent claim 3, a user selects the display direction change mode by connecting an earphone jack to the portable telephone.

However, it is noted that Smith fails to disclose changing direction by connection of an earphone jack.

Lucente discloses the screen rotated to properly orientate the computer with the user and the computer including headphone ports for communication, col. 9, lines 21-49.

It would have been obvious to one of ordinary skill in the art at the time of the invention to include a switch for the orientation display mode change in the various inputs to allow a user more comfort in using the computer.

With respect to dependent claim 6, display direction changing step comprises the steps of: continuing to display the image in the predetermined display direction for a predetermined time period; changing a value of at least one display direction selection

register; and display the image in a changed display direction according to the changed value . . .

However, it is noted that Smith fails to disclose continuing to display the image and changing a value of one display direction selection register and display the image in accordance to the changed value.

Lucente discloses changing the orientation of a display in different modes, col. 2, lines 1-67 and further discloses writing to the register to complete a rotating task and using the logic to change the display orientation, col. 8, lines 3-20.

It would have been obvious to one of ordinary skill in the art at the time of the invention to include using a register to alter the display direction to provide storage of the rotated display area.

With respect to dependent claim 7, the display direction selection register value is changed by reversing both an output direction of segments and an output direction of columns.

However, it is noted that Smith fails to disclose display direction register changed by reversing the segments and columns.

Lucente discloses changing the orientation of a display in different modes, col. 2, lines 1-67 and further discloses reversing the columns and rows for rotation, figure 11.

It would have been obvious to one of ordinary skill in the art at the time of the invention to include using a register to alter the display direction of columns and rows to provide storage of the rotated display area.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US2002/0072394 A1 Muramatsu 455/566 06/13/2002 09/19/2001

Portable communication terminal device and character/picture display method.

6,297,795 B1 Kato et al. 345/123 10/02/2001 01/30/1998

Small information processing apparatus.

6,597,384 B1 Harrison 345/905 07/22/2003 12/22/1999

Automatic reorienting of screen orientation using touch sensitive system.

5,949,408 Kang et al. 345/905 009/07/1999

Dual orientation display handheld computer devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Motilewa A. Good-Johnson whose telephone number is (703) 305-3939. The examiner can normally be reached on Monday - Friday 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi can be reached on (703) 305-4713. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Motilewa A. Good-Johnson
Examiner
Art Unit 2672

mgj

A handwritten signature in black ink, appearing to read 'MR', with a long horizontal line extending to the right.

MICHAEL RAZAVI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600